1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier
Product name: EA 9394 PART B
Synonym(s): 937060 - IDH NO. • AS9277014 - KIT NUMBER

1.2 Uses and uses advised against
Use(s): HARDENER FOR EPOXY RESIN SYSTEM • TWO COMPONENT EPOXY SYSTEM

1.3 Details of the supplier of the safety data sheet
Supplier name: MILITARY & AVIATION SPARES PTY LTD
Address: 16 Flint Street, North Ipswich, QLD, Australia, 4305
Telephone: (07) 3281 8087
Fax: (07) 3281 9098
Email: maspares@maspares.com.au
Website: http://www.maspares.com.au

1.4 Emergency telephone number(s)
Emergency: 13 11 26 (Poisons Information Centre - 24 hrs)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS Classification(s):
- Acute Toxicity: Skin: Category 4
- Skin Corrosion/Irritation: Category 1C
- Skin Sensitisation: Category 1
- Acute Toxicity: Inhalation: Category 4
- Aquatic Toxicity (Chronic): Category 2

2.2 Label elements
Signal word: DANGER
Pictograms:
- !
- !
- !

Hazard statement(s):
- H312: Harmful in contact with skin.
- H314: Causes severe skin burns and eye damage.
- H317: May cause an allergic skin reaction.
- H332: Harmful if inhaled.
- H411: Toxic to aquatic life with long lasting effects.

Prevention statement(s):
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response statement(s):
- P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

This report was compiled based on the SDS dated 19 Feb 2013
Reviewed: 19 Feb 2013
Printed: 08 Nov 2016
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**Product name**
EA 9394 PART B

- **P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P310** Immediately call a POISON CENTER or doctor/physician.
- **P321** Specific treatment is advised - see first aid instructions.
- **P333 + P313** If skin irritation or rash occurs: Get medical advice/attention.
- **P363** Wash contaminated clothing before reuse.
- **P391** Collect spillage.

**Storage statement(s)**

- **P405** Store locked up.

**Disposal statement(s)**

- **P501** Dispose of contents/container in accordance with relevant regulations.

**2.3 Other Hazards**
No information provided.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

**3.1 Substances / Mixtures**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS number</th>
<th>EC number</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>TETRAETHYLENEPENTAMINE</td>
<td>112-57-2</td>
<td>203-966-2</td>
<td>30 - 60%</td>
</tr>
<tr>
<td>POLYAMINE(S)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>5 - 10%</td>
</tr>
<tr>
<td>TRIETHYLENETETRAMINE (TETA)</td>
<td>112-24-3</td>
<td>203-950-6</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>CARBON BLACK</td>
<td>1333-86-4</td>
<td>215-609-9</td>
<td>0.1 - 1%</td>
</tr>
<tr>
<td>SUBSTITUTED PIPERAZINE</td>
<td>Not Available</td>
<td>Not Available</td>
<td>30 - 60%</td>
</tr>
<tr>
<td>SILICA, AMORPHOUS - FUMED, CRYSTALLINE FREE</td>
<td>112945-52-5</td>
<td>601-216-3</td>
<td>5 - 10%</td>
</tr>
</tbody>
</table>

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

- **Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
- **Inhalation** If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
- **Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
- **Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

**First aid facilities**
Eye wash facilities and safety shower should be available.

**4.2 Most important symptoms and effects, both acute and delayed**
Causes burns.

**4.3 Immediate medical attention and special treatment needed**
Treat symptomatically.

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**
Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

**5.2 Special hazards arising from the substance or mixture**
Combustible. May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.

**5.3 Advice for firefighters**
Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.
Product name: EA 9394 PART B

waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

2X

2 Fine Water Spray.
X Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

<table>
<thead>
<tr>
<th>Substance</th>
<th>Reference</th>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>3</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Fumed silica (respirable dust)</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>2</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

Eye/Face: Wear splash-proof goggles.
Hand: Wear viton (R) or nitrile gloves.
Body: Wear coveralls.
Respiratory: Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator.
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>BROWN SOLID</td>
</tr>
<tr>
<td>Odour</td>
<td>AMINE ODOR</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Flammability</td>
<td>COMBUSTIBLE</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 93.33°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>340°C</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>pH</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>SOLUBLE</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>8.6 (Air = 1)</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Upper Explosion Limit</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Lower Explosion Limit</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Viscosity</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Oxidising Properties</td>
<td>NOT AVAILABLE</td>
</tr>
</tbody>
</table>

9.2 Other information

No information provided.

10. STABILITY AND REACTIVITY

10.1 Reactivity
Carefully review all information in sections 10.2 to 10.6.

10.2 Chemical stability
Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions
Hazardous polymerization is not expected to occur.

10.4 Conditions to avoid
Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials
Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

10.6 Hazardous decomposition products
May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.
Product name: EA 9394 PART B

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Health hazard summary

Corrosive. This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Potential sensitising agent. Individuals with pre-existing respiratory impairment (e.g. asthmatics) or skin sensitivities may be more susceptible to adverse health effects.

Eye

Corrosive. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.

Inhalation

Slightly corrosive - irritant. Over exposure may result in irritation of the nose and throat, with coughing. May cause sensitisation by inhalation. High level exposure may result in breathing difficulties, ulceration, pulmonary oedema and unconsciousness.

Skin

Slightly corrosive. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. May cause sensitisation by skin contact.

Ingestion

Corrosive. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in gastrointestinal tract ulceration, unconsciousness and convulsions.

Toxicity data

TETRAETHYLENEPENTAMINE (112-57-2)

- LD50 (Ingestion): 3990 mg/kg (rat)
- LD50 (Intraperitoneal): 205 mg/kg (rat)
- LD50 (Intravenous): 320 mg/kg (mouse)
- LD50 (Skin): 660 mg/kg (rabbit)

POLYAMINE(S) (Not Available)

- LD50 (Ingestion): 500 - 1080 mg/kg-rat.
- LD50 (Skin): 730 - 1090 mg/kg-rbt.

TRIETHYLENETETRAMINE (TETA) (112-24-3)

- LD50 (Ingestion): 1600 mg/kg (mouse)
- LD50 (Intraperitoneal): 468 mg/kg (mouse)
- LD50 (Intravenous): 350 mg/kg (mouse)
- LD50 (Skin): 805 mg/kg (rabbit)

CARBON BLACK (1333-86-4)

- LD50 (Ingestion): > 8000 mg/kg (rat)

SILICA, AMORPHOUS - FUMED, CRystALLINE FREE (112945-52-5)

- LC50 (Inhalation): 10 mg/kg intratracheal, rat
- LD50 (Ingestion): 3160 mg/kg (rat)
- LD50 (Intravenous): 15 mg/kg (rat)
- LDL0 (Ingestion): 50 mg/kg intraperitoneal, rat

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Results of PBT and vPvB assessment

No information provided.

12.6 Other adverse effects

No information provided.
13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal: Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.

Legislation: Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<table>
<thead>
<tr>
<th>Land Transport</th>
<th>Sea Transport</th>
<th>Air Transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ADG)</td>
<td>(IMDG/IMO)</td>
<td>(IATA/ICAO)</td>
</tr>
<tr>
<td>3259</td>
<td>3259</td>
<td>3259</td>
</tr>
</tbody>
</table>

14.1 UN number: 3259
14.2 UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S.
14.3 Transport hazard classes
- DG Class 8
- Subsidiary risk(s): None Allocated

14.4 Packing group: III

14.5 Environmental hazards: None Allocated

14.6 Special precautions for user
- Hazchem Code: 2X
- EMS: F-A, S-B

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule: Classified as a Schedule 5 Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications:
- C - Corrosive
- N - Dangerous for the environment
- XI - Irritant
- Xn - Harmful

Risk phrases:
- R20/21: Harmful by inhalation and in contact with skin.
- R34: Causes burns.
- R43: May cause sensitisation by skin contact.
- R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety phrases:
- S1/2: Keep locked up and out of reach of children.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
- S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
- S61: Avoid release to the environment. Refer to special instructions/safety data sheets.
**Product name**

EA 9394 PART B

**WHS regulatory information**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>Regulation</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICA, AMORPHOUS - FUMED, CRYSTALLINE FREE</td>
<td>112945-52-5</td>
<td>Restricted Hazardous Chemicals</td>
<td>Free silica (crystalline silicon dioxide). For abrasive blasting &gt;1%.</td>
</tr>
</tbody>
</table>

**Inventory listing(s)**

AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

**15.2 Chemical safety assessment**

No information provided.

**16. OTHER INFORMATION**

**Additional information**

This product is used in conjunction with EA 9394 PART A QUART. Please refer to the appropriate SDS before use.

WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (e.g. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists  
CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds  
CNS Central Nervous System  
EC No. EC No - European Community Number  
EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)  
GHS Globally Harmonized System  
GTEPG Group Text Emergency Procedure Guide  
IARC International Agency for Research on Cancer  
LC50 Lethal Concentration, 50% / Median Lethal Concentration  
LD50 Lethal Dose, 50% / Median Lethal Dose  
mg/m³ Milligrams per Cubic Metre  
OEL Occupational Exposure Limit  
pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
**CHEMALERT REPORT**

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<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ppm</td>
<td>Parts Per Million</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>Specific target organ toxicity (repeated exposure)</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>Specific target organ toxicity (single exposure)</td>
</tr>
<tr>
<td>SUSMP</td>
<td>Standard for the Uniform Scheduling of Medicines and Poisons</td>
</tr>
<tr>
<td>SWA</td>
<td>Safe Work Australia</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
</tbody>
</table>

**Report Status**

This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this ChemAlert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this ChemAlert report.

**Prepared By**

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**Last Reviewed:** 19 Feb 2013
**Date Printed:** 08 Nov 2016
**Based on SDS dated:** 19 Feb 2013

**End of Report**